

| Ref # | Hits | Search Query | DBs | Default Operator | Plurals | Time Stamp |
|-------|------|---|---|------------------|---------|------------------|
| S1 | 1136 | 82/47,48,85,91,101.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 12:40 |
| S4 | 292 | 83/178,183,184.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 15:11 |
| S5 | 4 | S1 and paper same pipe | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 12:40 |
| S6 | 4 | ("1934660").URPN. | USPAT | OR | ON | 2005/07/05 12:47 |
| S7 | 14 | ("3993231" "4084466" "4227431" "4291453" "4302958" "4649780" "4748881" "4779496" "4794834" "4930379" "5014579" "5383380" "5457877" "6101910").PN. OR ("6832536"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/05 13:09 |
| S8 | 30 | ("0983387" "1685127" "1777316" "1825925" "1864903" "2457310" "2521003" "2521385" "3521004" "3522748" "3861254" "4748881").PN. OR ("5383380").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/05 13:10 |
| S9 | 16 | ("1685127" "1952209" "2365760" "3161097" "3861253" "3933063").PN. OR ("4748881"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/05 13:14 |
| S10 | 2 | ("4292867").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 14:20 |
| S11 | 4 | ("4111084").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 14:21 |
| S12 | 2 | ("3911768").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 14:21 |

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| S13 | 18 | ("0898732" "0969858" "2521003" "3143014" "3344696").PN. OR ("3911768").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/05 14:24 |
| S14 | 8 | ("1075910").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 14:25 |
| S15 | 8 | ("1110681").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 14:28 |
| S16 | 0 | ("29501197").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 14:28 |
| S17 | 0 | ("29501197").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 14:36 |
| S18 | 2 | ("4292867").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 14:36 |
| S19 | 2 | ("20040074350").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/05 19:03 |
| S20 | 1136 | 82/47,48,85,91,101.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 19:03 |
| S21 | 59 | S20 and mandrel same groove | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/11/11 10:50 |
| S22 | 3 | S20 and mandrel same (groove with width) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 19:17 |

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| S23 | 14 | ("0460317" "0811593" "1042998" "1242448" "1984730" "4487378" "5271137" "5453070" "5755146").PN. OR ("6718853").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/05 19:11 |
| S24 | 292 | 83/178,183,184.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 19:17 |
| S25 | 1 | S24 and mandrel same (groove with width) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 19:18 |
| S26 | 18 | S24 and mandrel same groove | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 19:23 |
| S27 | 913 | mandrel same (groove with width) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 19:23 |
| S28 | 189 | pipe and mandrel same (groove with width) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/05 19:25 |
| S29 | 26 | pipe and blade and mandrel same (groove with width) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/06 07:50 |
| S30 | 0 | ("bladesame(mandrelandgroove)").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/06 08:24 |
| S31 | 1232 | blade same (mandrel and groove) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/06 08:24 |
| S32 | 45 | blade same (mandrel near groove) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/06 08:52 |

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| S33 | 4 | ("3709969").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/06 09:57 |
| S34 | 1511 | "408"/\$.ccls. and (chamfer\$5 or debur\$4) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/07 15:12 |
| S35 | 369 | "408"/\$.ccls. and debur\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/07 16:14 |
| S36 | 61 | S35 and pipe | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/07 16:13 |
| S37 | 178 | "83"/\$.ccls. and debur\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/07 16:16 |
| S38 | 15 | S37 and pipe | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/07 16:17 |
| S39 | 2 | ("3754832").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/07 16:17 |
| S40 | 15 | ("0469354" "0651337" "1228951" "3550482").PN. OR ("3754832"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 16:19 |
| S41 | 31 | ("1531738" "1662936" "1750394" "2204516" "2556415" "3118476" "3137208" "3672017" "3754832" "3817649" "3872748" "4205493" "4229129" "4743146" "4798503" "4955165" "5004383" "5007778" "5401125" "5810522" "5853272" "5961382" "6092293" "6146067").PN. OR ("6835029"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 16:20 |
| S42 | 7 | ("3200540" "3290834" "4063471").PN. OR ("5961382"). URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 16:20 |

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| S43 | 11 | ("3137208" "3365773" "3802793").PN. OR ("5004383").URPN. | US-PGPUB; USPAT; USOCR | OR | ON | 2005/07/07 17:06 |
| S44 | 1740 | insert and (AB with type) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/08 14:38 |
| S45 | 192 | insert same (AB with type) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/08 14:39 |
| S46 | 1136 | 82/47,48,85,91,101.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/10 19:00 |
| S47 | 259 | S46 and blades | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/10 19:00 |
| S48 | 48 | S46 and blades same width | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/10 19:00 |
| S49 | 68 | S46 and blades same thick\$4 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/07/10 19:12 |
| S50 | 0 | ("29501197").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/10 19:12 |
| S51 | 0 | ("29501197").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/10 19:13 |
| S52 | 0 | ("29501197.1").PN. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | OFF | 2005/07/10 19:13 |

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| S53 | 1141 | 82/47,48,85,91,101.ccls. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/11/11 10:50 |
| S54 | 5 | S53 and mandrel near groove | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/11/11 10:54 |
| S55 | 0 | S53 and mandrel near peieces | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/11/11 10:54 |
| S56 | 44 | S53 and mandrel same pieces | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/11/11 10:54 |
| S57 | 101 | S53 and mandrel same (pieces or sections) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT | OR | ON | 2005/11/11 10:54 |